

This listing of the claims will replace all prior versions and listings of claims in the application:

**LISTING OF THE CLAIMS**

Claim 1 (currently amended): A device for performing an experiment with a target moiety, comprising:

a substrate having a plurality of probe moieties each attached ~~accurately~~ to a designated site on a surface thereof, and containing machine-readable information relating to the probe and/or target moieties; and

a source of the target moiety,

wherein an interaction between the target moiety and a probe moiety results in a detectable response signal from the site of the probe moiety interacting with the target moiety,

the information is represented by a data signal that and is physically associated with the substrate, and

~~the moieties are accurately attached to the substrate via application of focused acoustic radiation to one or more reservoirs, each containing a moiety for attachment to the substrate surface so as to eject droplets therefrom toward the substrate surface~~ the response and data signals are in the same detectable/readable form.

Claim 2 (previously presented): The device of claim 1, wherein the machine-readable information contains the identity of a customer.

Claim 3 (previously presented): The device of claim 1, wherein the machine-readable information is secured.

Claim 4 (previously presented): The device of claim 1, wherein the machine-readable information contains shipping and/or billing information.

Claim 5 (currently amended): The device of claim 1, wherein the machine-readable information contains the identity of at least one of the probe moieties ~~of the plurality of moieties attached to the device surface.~~

Claim 6 (currently amended): The device of claim 1, wherein the machine-readable information comprises information relating to a process by which the plurality of probe moieties is attached to the substrate surface.

Claim 7 (currently amended): The device of claim 1, wherein the machine-readable information comprises information relating to experimental conditions associated with the use of the plurality of probe moieties.

Claim 8 (currently amended): The device of claim 1, wherein the machine-readable information comprises information relating to the results of an experiment associated with the use of the plurality of probe moieties.

Claim 9 (original): The device of claim 1, wherein the machine-readable information is digital.

Claim 10 (canceled).

Claim 11 (previously presented): The device of claim 103, wherein the machine-readable information is represented by no less than about 1 megabyte of data.

Claim 12 (original): The device of claim 11, wherein the machine-readable information is represented by about 1 to about 650 megabytes of data.

Claim 13 (currently amended): The device of claim 1, wherein ~~the machine-readable information is in a format that is~~ the response and data signals are in an optically detectable/readable form.

Claim 14 (currently amended): The device of claim 13, wherein ~~the machine-readable information is in a format that is~~ the response and data signals are detectable/readable by a fluorescence reader.

Claim 15 (currently amended): The device of claim 13, wherein ~~the machine-readable information is in a format that is~~ the response and data signals are detectable/readable by a phosphoimager.

Claim 16 (currently amended): The device of claim 13, wherein ~~the machine-readable information is in a format that is~~ the response and the data signals are detectable/readable by a compact disk reader.

Claim 17 (currently amended): The device of claim 13, wherein ~~the machine-readable information is in a format that is~~ the response and data signals are detectable/readable by a ~~DVD~~ digital versatile disk reader.

Claim 18 (previously presented): The device of claim 1, further comprising additional information in a format that is readable by a bar code reader.

Claim 19 (original): The device of claim 18, wherein the bar code reader is a one-dimensional bar code reader.

Claim 20 (original): The device of claim 18, wherein the bar code reader is a two-dimensional bar code reader.

Claim 21 (currently amended): The device of claim 1, wherein the ~~machine-readable information is~~ the response and data signals are in a magnetically detectable/readable form.

Claim 22 (currently amended): The device of claim 1, wherein the ~~machine-readable information is~~ the response and data signals are in an electronically detectable/readable form.

Claim 23 (original): The device of claim 1, further comprising human readable information.

Claim 24 (currently amended): The device of claim 1, wherein the attached probe moieties are protected.

Claim 25 (currently amended): The device of claim 24, further comprising a protective layer over the attached probe moieties.

Claim 26 (original): The device of claim 25, wherein the protective layer is removable.

Claim 27 (original): The device of claim 25, wherein the protective layer allows only selected matter to be transmitted therethrough.

Claim 28 (original): The device of claim 27, wherein the selected matter is electromagnetic radiation.

Claim 29 (currently amended): The device of claim 28, wherein the electromagnetic radiation has a wavelength that causes fluorescence near an attached probe moiety.

Claim 30 (currently amended): The device of claim 1, wherein the plurality of attached probe moieties comprises an array of biomolecules.

Claim 31 (original): The device of claim 30, wherein the biomolecules are nucleotidic or peptidic.

Claim 32 (original): The device of claim 30, wherein the biomolecules are oligomeric or polymeric.

Claim 33 (currently amended): The device of claim 30, wherein the array comprises at least about 5,000 probe moieties per square centimeter of substrate surface.

Claim 34 (currently amended): The device of claim 33, wherein the array comprises at least about 50,000 probe moieties per square centimeter of substrate surface.

Claim 35 (currently amended): The device of claim 34, wherein the array comprises at least about 200,000 probe moieties per square centimeter of substrate surface.

Claim 36 (currently amended): The device of claim 35, wherein the array comprises at least about probe 1,000,000 moieties per square centimeters of substrate surface.

Claim 37 (original): The device of claim 1, wherein the substrate comprises a disk.

Claim 38 (original): The device of claim 1, wherein the substrate comprises a tape.

Claim 39 (original): The device of claim 1, wherein the substrate comprises a well plate.

Claim 40 (original): The device of claim 1, wherein the substrate comprises a slide.

Claim 41 (currently amended): The device of claim 1, wherein the substrate comprises a plurality of surfaces arranged in a three-dimensional structure to which the probe moieties are attached

Claim 42 (previously presented): The device of claim 1, wherein the substrate further comprises a magnetic medium.

Claim 43 (previously presented): The device of claim 1, wherein the substrate further comprises an optical medium.

Claim 44 (currently amended): The device of claim 1, wherein the surface having the probe moieties attached thereto opposes a surface on which the information is located.

Claims 45-90 (canceled).

Claim 91 (currently amended): The device of claim 1, wherein the information is contained in a discrete region of the substrate from the substrate surface having the plurality of ~~molecular~~ probe moieties attached thereto.

Claim 92 (canceled).

Claim 93 (previously presented): The device of claim 91, wherein the discrete region is noncoplanar with respect to the substrate surface.

Claim 94 (currently amended): The device of claim 91, wherein the discrete region of the substrate is movable with respect to the substrate surface ~~to which the moieties are attached~~.

Claim 95 (previously presented): The device of claim 94, wherein the substrate comprises a cartridge.

Claim 96 (currently amended): The device of claim 1, wherein the machine-readable information and the attached probe moieties exhibit positional correspondence.

Claim 97 (previously presented): The device of claim 1, wherein the substrate has a radial mass distribution that is symmetric about an axis, perpendicular to the plane of the substrate surface.

Claim 98 (previously presented): The device of claim 97, wherein the substrate is in the form of a disk.

Claim 99 (previously presented): The device of claim 1, wherein the machine-readable information is contained in a computer microchip.

Claim 100 (previously presented): The device of claim 1, wherein the machine-readable information is stored in a medium capable of emitting radiation.

Claim 101 (previously presented): The device of claim 100, wherein the radiation is electromagnetic radiation.

Claim 102 (previously presented): The device of claim 100, wherein the medium is a fluorescent medium.

Claim 103 (previously presented): The device of claim 1, wherein the information is represented by no less than 1 kilobyte of data.

Claim 104-106 (canceled).

Claim 107 (new): The device of claim 1, wherein the response and data signals are in a radioactively detectable/readable form.

Claim 108 (new): A machine for performing an experiment with a target moiety, comprising:  
the device of claim 1;  
a means for applying the target moiety from the source to the probe moieties; and  
a means for reading the information contained in the substrate and for detecting the detectable response signal resulting from an interaction between the target moiety and a probe moiety.

Claim 109 (new): A method for performing an experiment with a target moiety, comprising:  
(a) using a reading and detecting means to read the machine-readable information from the device of claim 1;  
(b) applying the target moiety from the source to the probe moieties based upon the information read by the reading and detecting means; and  
(c) using the reading and detecting means to detect for a response signal resulting from an interaction between the target moiety and a probe moiety.